

WEST Search History

DATE: Friday, March 16, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L11	L10 and L6	5
<input type="checkbox"/>	L10	L9 and @ad<20010316	10
<input type="checkbox"/>	L9	L8 and (dna or cdna or nucleic acid or polynucleotide or vector or host)	22
		L7 and (Dextranucrase or 1,6 Glucan synthetase or gtfC glucosyltransferase or gtfD glucosyltransferase or gtfG glucosyltransferase or gtfS glucosyltransferases or GTF 1 or GTF C or	
<input type="checkbox"/>	L8	GTF SI or GtfU or Glucosyltransferase S or Oligo isomaltosaccharide synthase or Streptococcal glucosyltransferase or Streptococcal glucosyltransferase GTF S or Sucrose 6 glucosyltransferase or Sucrose 1,6 alpha glucan glucosyltransferase)	51
<input type="checkbox"/>	L7	Leuconostoc mesenteroides	823
<input type="checkbox"/>	L6	L5 or l4 or l3 or l2 or l1	41742
<input type="checkbox"/>	L5	(536/23.2)!.ccls.	15540
<input type="checkbox"/>	L4	(435/320.1)!.ccls.	33499
<input type="checkbox"/>	L3	(435/252.3)!.ccls.	11342
<input type="checkbox"/>	L2	(435/193)!.ccls.	2391
<input type="checkbox"/>	L1	(435/183)!.ccls.	5489

END OF SEARCH HISTORY

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 9032-14-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glucosyltransferase, sucrose-1,6- α -glucan (9CI) (CA INDEX NAME)
OTHER NAMES:
CN α -1,6-Glucan synthetase
CN Dextranucrase
CN E.C. 2.4.1.5
CN Gene gtfC glucosyltransferase
CN Gene gtfD glucosyltransferase
CN Gene gtfG glucosyltransferase
CN Gene gtfS glucosyltransferases
CN Glucosyltransferase GTF-1
CN Glucosyltransferase GTF-C
CN Glucosyltransferase GTF-SI
CN Glucosyltransferase GtfU
CN Glucosyltransferase-S
CN Oligo-isomaltosaccharide synthase
CN Streptococcal glucosyltransferase
CN Streptococcal glucosyltransferase GTF-S
CN Sucrose α 1 \rightarrow 6-glucosyltransferase
CN Sucrose 6-glucosyltransferase
CN Sucrose-1,6- α -glucan glucosyltransferase
CN Sucrose:glucan α 1 \rightarrow 6-glucosyltransferase
MF Unspecified
CI MAN
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS,
CASREACT, CHEMCATS, CHEMLIST, CSCHM, EMBASE, IFICDB, IFIPAT, IFIUDB,
PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL, VTB

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

818 REFERENCES IN FILE CA (1907 TO DATE)

12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

819 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Database: ENZYME
Entry: 2.4.1.5

ENTRY EC 2.4.1.5 Enzyme
NAME dextranucrase;
 sucrose 6-glucosyltransferase;
 SGE;
 CEP;
 sucrose-1,6-alpha-glucan glucosyltransferase
CLASS Transferases
 Glycosyltransferases
 Hexosyltransferases
SYSNAME sucrose:1,6-alpha-D-glucan 6-alpha-D-glucosyltransferase
REACTION sucrose + (1,6-alpha-D-glucosyl)n = D-fructose +
 (1,6-alpha-D-glucosyl)(n+1) [RN:R02120 R06066]
ALL_REAC R02120 R06066(G)
SUBSTRATE sucrose [CPD:C00089];
 (1,6-alpha-D-glucosyl)n [CPD:C00372]
PRODUCT D-fructose [CPD:C10906];
 (1,6-alpha-D-Glucosyl)n+1 [CPD:C00372]
REFERENCE 1
 Bailey, R.W. Transglucosidase activity of rumen strains of
 Streptococcus bovis. 2. Isolation and properties of dextranucrase.
 Biochem. J. 72 (1959) 42-49.
 2
 Bailey, R.W., Barker, S.A., Bourne, E.J. and Stacey, M.
 Immunopolysaccharides. Part VI. The isolation and properties of the
 dextranucrase of Betacoccus arabinosaceous. J. Chem. Soc. (Lond.)
 (1957) 3530-3536.
 3
 Hehre, E.J. Enzymic synthesis of polysaccharides: a biological type
 of polymerization. Adv. Enzymol. Relat. Subj. Biochem. 11 (1951)
 297-337.
PATHWAY PATH: map00500 Starch and sucrose metabolism
 PATH: map02020 Two-component system - General
ORTHOLOG KO: K00689 dextranucrase
GENES SAA: SAUSA300_0939
 LLM: llmg_0458
 SMU: SMU.1004(gtfB) SMU.1005(gtfC) SMU.910(gtfD)
 SSA: SSA_0613(gtfP)
 LSL: LSL_1517
 CHU: CHU_1410
DBLINKS IUBMB Enzyme Nomenclature: 2.4.1.5
 ExPASy - ENZYME nomenclature database: 2.4.1.5
 ERGO genome analysis and discovery system: 2.4.1.5
 BRENDA, the Enzyme Database: 2.4.1.5
 CAS: 9032-14-8

///

=> d full his

(FILE 'HOME' ENTERED AT 16:49:45 ON 16 MAR 2007)

FILE 'REGISTRY' ENTERED AT 16:50:20 ON 16 MAR 2007

L1 1 SEA ABB=ON PLU=ON 9032-14-8/RN

FILE 'HCAPLUS' ENTERED AT 16:50:36 ON 16 MAR 2007

FILE 'REGISTRY' ENTERED AT 16:50:51 ON 16 MAR 2007

SET SMARTSELECT ON

L2 SEL PLU=ON L1 1- CHEM : 20 TERMS

SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 16:50:51 ON 16 MAR 2007

L3 977 SEA ABB=ON PLU=ON L2

FILE 'REGISTRY' ENTERED AT 16:51:11 ON 16 MAR 2007

D L1

FILE 'HCAPLUS' ENTERED AT 16:51:12 ON 16 MAR 2007

L4 326 SEA ABB=ON PLU=ON L3 (L) (LEUCONOSTOC MESENTEROIDES)

L5 19 SEA ABB=ON PLU=ON L4 (L) (DNA OR CDNA OR NUCLEIC ACID OR
POLYNUCLEOTIDE OR VECTOR OR HOST)

L6 0 SEA ABB=ON PLU=ON L5 AND PD<200103

L7 9 SEA ABB=ON PLU=ON L5 AND PD<20010316